

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A dual mode terminal supporting different packet frame modes, comprising:

a video chip having an application of packet data services and a ~~first data communication protocol and a second data communication protocol processing packets received through a first communication network and a second communication network and transmitting the packets into the application;~~

~~a first network modem chip coupled to the video chip through a Universal Asynchronous Receiver Transmitter (UART) interface and having a protocol stack relating to [[a]]the first communication network, the first network modem chip to provide Point to Point Protocol (PPP) packets across the UART interface to the video chip; and~~

a second network modem chip coupled with the video chip through an interface and having a protocol stack relating to [[a]]the second communication network,

wherein the ~~first data communication protocol~~ of the video chip converts the Point to Point Protocol (PPP) packets received from [[the]]a first network modem chip into Internet Protocol (IP) packets for the video chip, and the ~~first data communication protocol~~ of the video chip converts IP packets in the video chip into PPP packets for the first network modem chip,

wherein the data communication protocol internally processes IP packets from the application and provides the packets to the second network modem chip, and the data communication protocol receives the IP packets from the second network modem chip directly.

2. (Currently Amended) The terminal of claim 1, wherein the ~~first~~ data communication protocol performs Internet Protocol (IP) packet processing and performs mutual conversion of IP packets and Point to Point Protocol (PPP) packets only in communication with the first communication network.

3. (Previously Presented) The terminal of claim 1, wherein the video chip communicates with the first network modem chip through the Universal Asynchronous Receiver Transmitter (UART) interface and communicates with the second network modem chip through a Dual Port RAM (DPRAM) interface.

4. (Previously Presented) The terminal of claim 3, wherein the video chip and the first network modem chip each include a UART driver to communicate through the UART interface.

5. (Previously Presented) The terminal of claim 3, wherein the video chip and the second network modem chip each include an Inter Process Communication (IPC) driver to communicate through the DPRAM interface.

6. (Original) The terminal of claim 1, wherein the application of packet data services is directly interworked with a socket of a Transmission Control Protocol /Internet Protocol (TCP/IP) superior layer.

7. (Original) The terminal of claim 6, wherein the socket comprises a Transmission Control Protocol /Internet Protocol (TCP/IP) superior layer.

8. (Original) The terminal of claim 1, wherein the first network modem chip and the second network modem chip perform only functions of a modem.

9. (Currently Amended) The terminal of claim 1, wherein the ~~first~~—data communication protocol, the first network modem chip and the first communication network are based in a Code Division Multiple Access (CDMA) network.

10. (Currently Amended) The terminal of claim 1, wherein the ~~second~~—data communication protocol, the second network modem chip and the second communication network are based in a Wideband Code Division Multiple Access (WCDMA) network.

11. (Currently Amended) A method for supporting different packet frame modes in a terminal that supports transmission in different packet frames, wherein the terminal includes a video chip having a ~~first~~ data communication protocol ~~and a second data communication protocol~~, the method comprising:

the terminal performing packet data communication with a second communication network;

the terminal performing packet processing by using the ~~first~~ data communication protocol in packet data communication with a first communication network, wherein the terminal performing packet data communication with the second communication network including:

directly providing a packet to a second network modem from the video chip when a packet is transmitted from the terminal to the second communication network in packet data communication, and

receiving an IP frame at the video chip through the second network modem, the video chip performing packet processing and interworking with a socket when a packet is transmitted from the second communication network to the terminal,

wherein the terminal performing packet processing by using the ~~first~~ data communication protocol includes:

converting an Internet Protocol (IP) packet to a Point to Point Protocol (PPP) packet in the video chip, converting the PPP packet into a PPP frame and providing the PPP frame across a Universal Asynchronous Receiver Transmitter (UART) interface to a first

Reply to Office Action dated November 26, 2008

network modem when a packet is transmitted from the terminal and across the UART interface to the first communication network in packet data communication, and

receiving a PPP frame at the video chip from the first network modem, converting the received PPP frame into an IP frame at the video chip, and performing packet processing and interworking with a socket when a packet is transmitted from the first communication network and across the UART interface to the terminal.

12. (Currently Amended) The method of claim 11, further comprising performing Internet Protocol (IP) packet processing with the ~~first~~ data communication protocol only in a case of communicating with the first communication network, wherein the IP packets and the Point to Point Protocol (PPP) packets are mutually converted.

13-14. (Canceled)

15. (Currently Amended) The method of claim 11, wherein the ~~first~~ data communication protocol, the first network modem chip and the first communication network are based in a Code Division Multiple Access (CDMA) network.

16. (Currently Amended) The method of claim 11, wherein the ~~second~~ data communication protocol, the second network modem chip and the second communication network are based in a Wideband Code Division Multiple Access (WCDMA) network.

17. (Previously Presented) The method of claim 11, wherein the socket comprises a Transmission Control Protocol/Internet Protocol (TCP/IP) superior layer.

18. (Previously Presented) The method of claim 11, wherein the socket comprises a Transmission Control Protocol/Internet Protocol (TCP/IP) superior layer.

19. (Currently Amended) A method for supporting different packet frame modes in a terminal that supports transmission in different packet frames, comprising:

judging a system mode by using a terminal including a video chip having a ~~first~~ data communication protocol ~~and a second data communication protocol for a first network and~~ a second network;

transmitting packet data across a Universal Asynchronous Receiver Transmitter (UART) interface and across a first network modem chip to ~~[[a]]the~~ first network when the judged system mode is a first communication service for the first network, the transmitting including performing Internet Protocol (IP) packet processing at the video chip with the ~~first~~ data communication protocol and performing mutual conversion of IP packet and Point to Point Protocol (PPP) packets at the video chip only when in communication with the first network;

transmitting a pertinent Internet Protocol (IP) frame across a second network modem chip to a second network by transmitting the IP packet directly to the second network modem chip when the system mode is a second communication service for the second network;

Reply to Office Action dated November 26, 2008

receiving packet data from the first network; and

receiving data from the second network.

20-22. (Canceled)

23. (Previously Presented) The method of claim 19, wherein transmitting packet data further includes:

converting an Internet Protocol (IP) packet to a Point to Point Protocol (PPP) in the video chip, and converting the IP frame into a PPP frame in the video chip;

transmitting the PPP frame across the UART interface to the first network modem chip; and

transmitting the PPP frame to the first network.

24. (Canceled)

25. (Previously Presented) The method of claim 19, wherein receiving packet data from the first network comprises:

transmitting a Point to Point Protocol (PPP) frame received from the first network at the first network modem chip and across the UART interface to the video chip when packet data is received from the first network; and

Reply to Office Action dated November 26, 2008

converting the PPP frame into an Internet Protocol (IP) frame at the video chip and performing packet processing in the video chip and operating application of a pertinent packet data service.

26. (Currently Amended) The method of claim 19, wherein the ~~first~~ data communication protocol and the first network are based in a Code Division Multiple Access (CDMA) network.

27. (Currently Amended) The method of claim 19, wherein the ~~second~~ data communication protocol and the first network are based in a Wideband Code Division Multiple Access (WCDMA) network.

28-45. (Canceled)